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COVER NOTE

Subject: The Governance Challenges of Mission-oriented R&I Policy -
Powerpoint presentation (Research WP meeting 03.02.2022)

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The Governance Challenges of Mission-Oriented R&I Policy

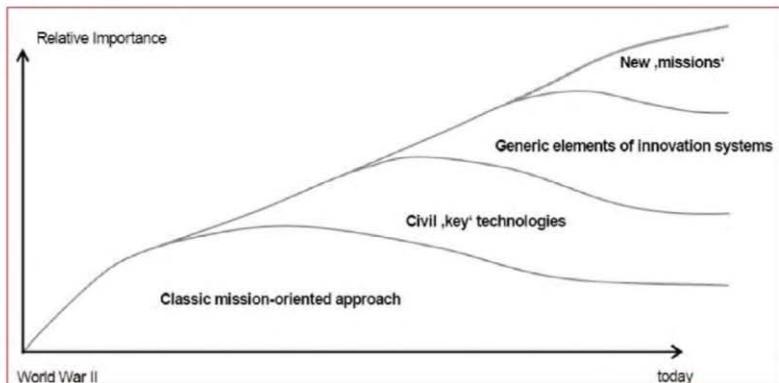
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**Council of the European Union /
Research Working Party**

Brussels 3 February 2022

Where we start(ed) from...

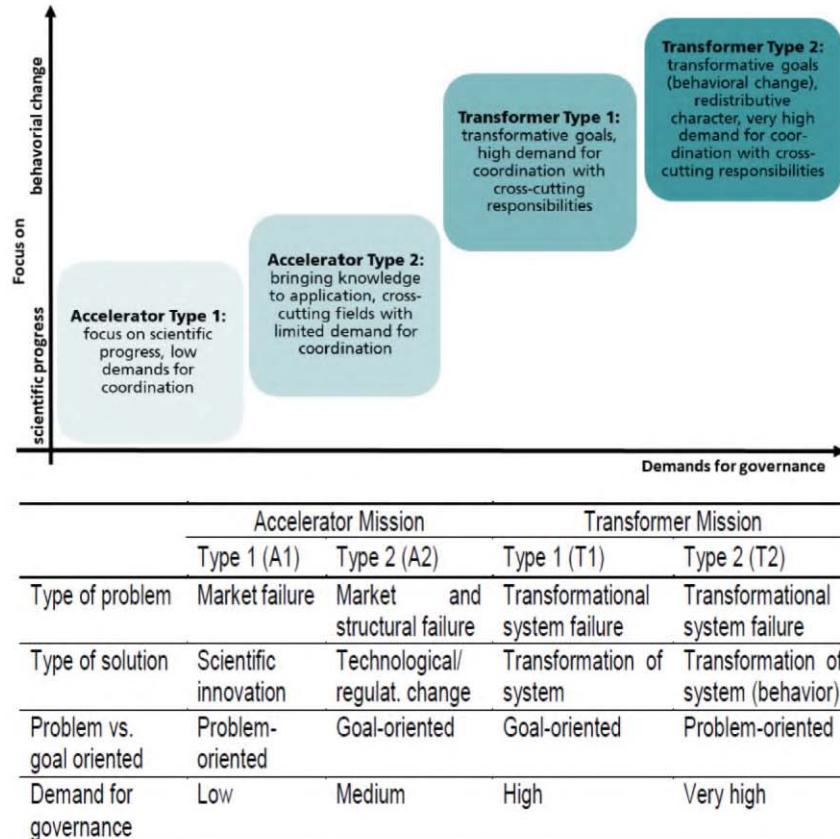


Source: Gassler H., Polt W., Rammer C. (2008)

- We have studied what we could learn from the **history** of mission-oriented policy approaches
- We have elaborated (some) **workable definitions** of what Mission-Oriented R&I Policy is / should / could be
- We are confronted with a **number of ,grand scale'** **societal challenges** which might be best tackled by mission-oriented approaches
- ...but we are only at the **beginning phases** of (re)learning how to actually implement and govern the new types of missions, currently we are entering the **,build up / construction / (partly still) experimental phase'** of ,Mission-building'

Types of Missions and Challenges for Governance

Source: Wittmann et. al. (2020), from: Pölt et al. 2021

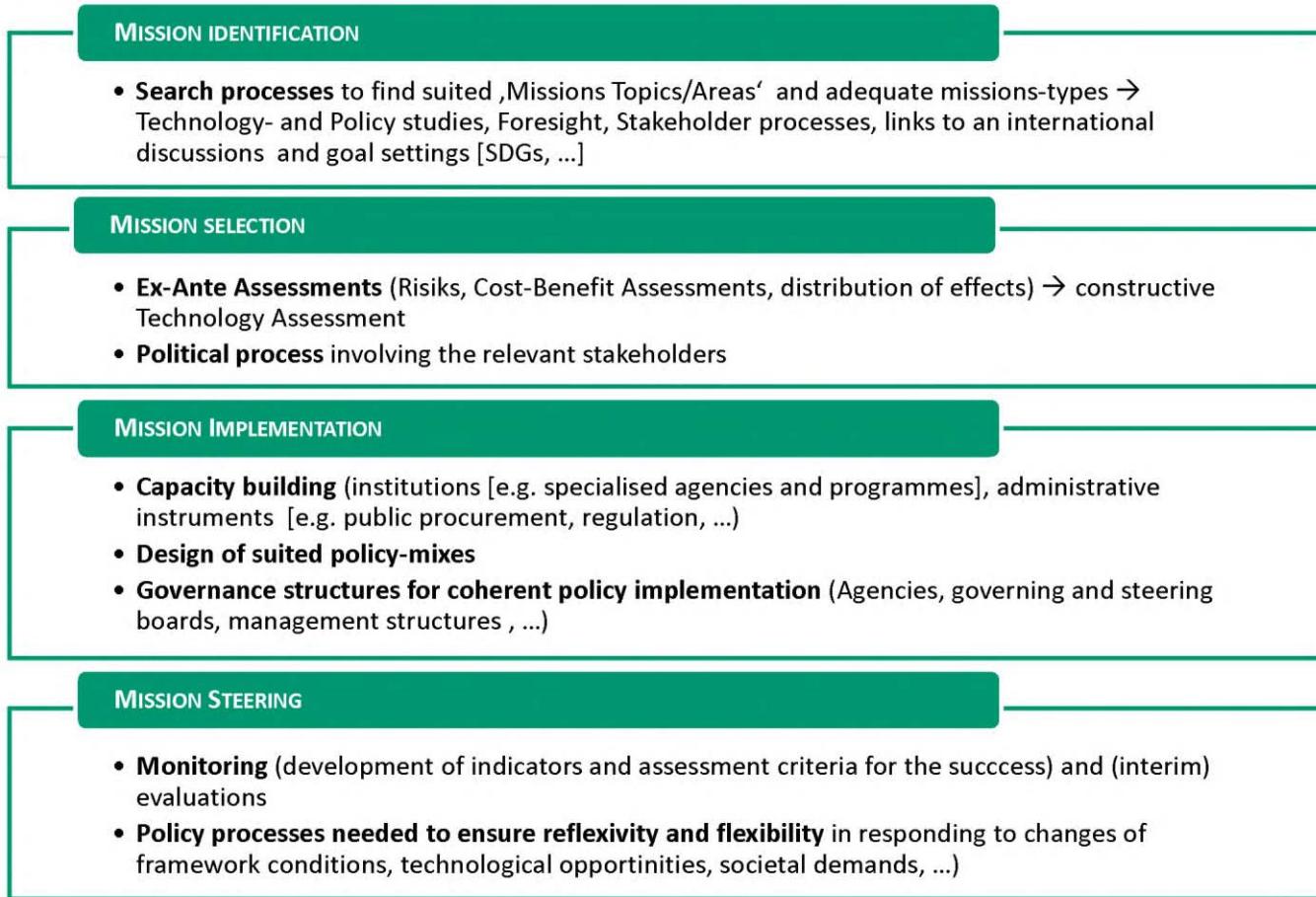


Type of Mission	Goals / Orientation	Predominant style of governance	Challenges	Examples
‘Science / Breakthrough-Missions’	Aiming at scientific breakthroughs sometimes, but not always with view to the potential application	„Oriented (or even targeted) serendipity“ Initiation centralised, implementation more decentral, medium level of aspiration level on coherence (high diversity because of differing groups of actors in the science system, scientific uncertainty)	Interdisciplinary cooperation, scientific/technological uncertainties („ontological expansion“)	Human Brain Project, Quantum Flagship, (Research on) Ebola
‘Technology / Accelerator’ – Missions	Realizing functioning complex solutions , which need concerted and massive application of resources	„flexible/reflexive planning“ Initiation centralised, implementation: often centralised, often with specialised („dedicated“) institutions/organisations; high aspiration level w/r to coherence (a functioning artefact/system being the goal)	Planning approach despite uncertainty about availability /feasibility of technological solutions, often with institutionalised links to basic research	Apollo/Artemis-Mission, civil nuclear powerplants, TGV, Concorde, Battery research
‘Transformative Missions’	Change of existing (large-scale) socio-technical systems , involving social, technological, organisational and institutional innovations	„Goal oriented modulation“ (Kemp et al. 2004) Initialisation: mostly decentral (also central forms conceivable). Implementation: coordinated, but mostly decentral implementation (multi-level/multi-actor), Governance with experimentation and learning processes; medium aspiration level of coherence, great challenge for coordination because of high complexity, longterm timeframe and large number of actors, adaptive approach needed	Considerable uncertainty about problem, solution and goals, long-term adjustment processes, combination of experimental and ‚framing‘ approaches, policy coordination together with scaling / generalisation	German ‚Energiewende‘, Transport/Mobilitätswende, sustainable and secure water management (NL)
‘Umbrella-Missions’	Initiatives that follow overarching goals, including parts which are missions in the proper sense (even of different sorts)	„Soft guidance“ Initiation decentral, but rather loose bundeling under one umbrella, Implementation: combination of different initiatives, weak coordinative linking , low to medium level of aspiration with respect to coherence	Securing coherence in the absence of strong coordination mechanisms	German High-Tech-Strategy, global CC research, Adaptation / Mitigation

Steps and Functions in Mission-Oriented Policy and Governance

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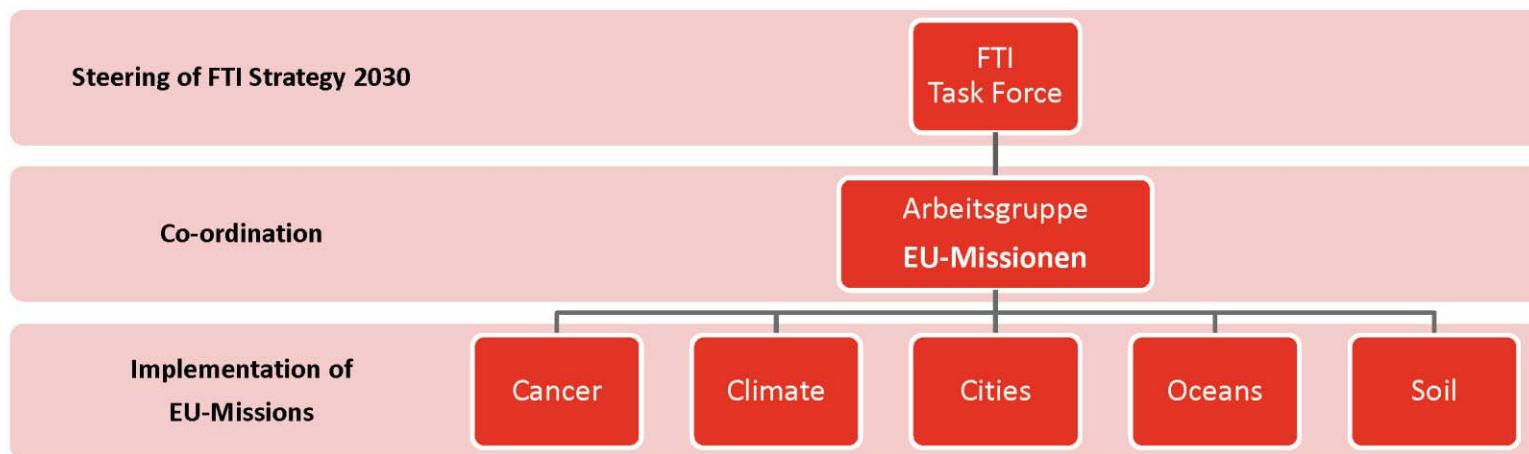
Source: Polt/Weber 2019



An example of a national Governance Structure: Austria

Governance-Strukturen of the WG „EU-Missions“

(est. per decision of the FTI-Task Force from 29. April 2021)



Austrian governance of EU Missions



Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

Ministries of Defence, Agriculture, Digitalisation, ..

Federal Ministry
Republic of Austria
Education, Science
and Research

Working Group „EU Missions“

Office (Support)



EU Mission Boards

EU Project „Coordination of
complementary actions“

Advisory Board
Foresight & Citizens

EU Mission Groups

ERA Policy Agenda

Advisory Board
Strategic Intelligence

Strategic Programme
Committee Horizon Europe

OECD „MOIP Project“

Mission Management Group

Mission Cancer
Action Group

Mission Climate
Action Group

Mission Cities
Action Group

Mission Waters
Action Group

Mission Soil
Action Group

Milestones towards the Austrian Implementation Plan for EU Missions



Country-specificities in implementation of MOIP

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- Each country has its own ‚institutional / policy trajectory‘
- Institutions rarely are created from scratch, but evolve with some ‚path dependency‘ ...
- Austria (like Norway or Sweden) is following the ‚interministerial policy coordination cum agency driven implementation‘ model, DEN, BEL(FLA) with a strong role for regions, ...
- ...while we know from countries like KOR or JAP that there are more centralised governance models....
- With a strong incentive for international **mutual learning** (OECD, EU, ...) and **coordination** (EU, ...)

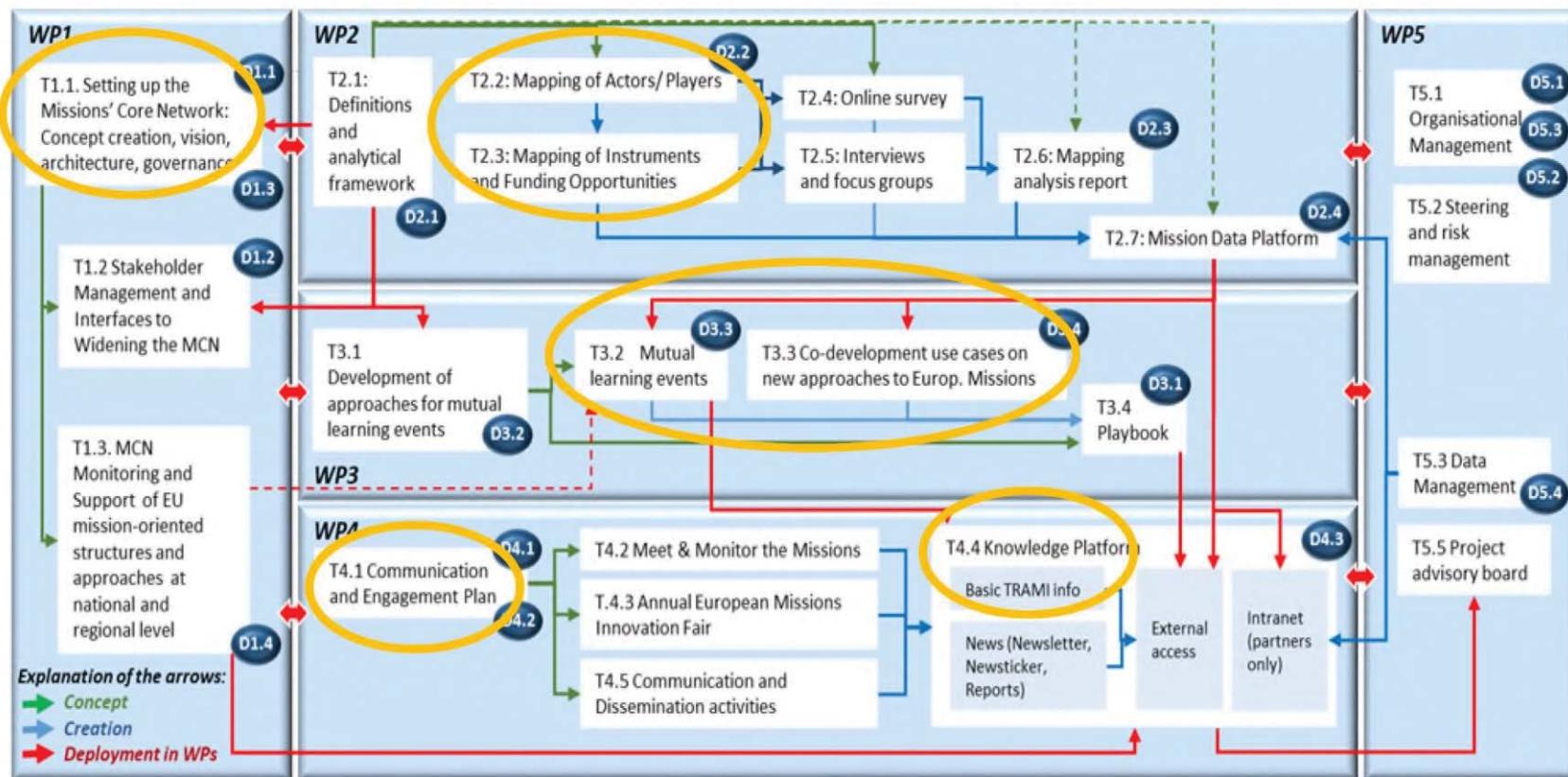
An initiative for coordination of Efforts of Missions' implementation:

the TRAMI (TRAnsnational cooperation on the Missions) project

25 (26) partner from 16(17) MS
Duration: 2Q2022 - 2Q2024

Architecture of the TRAMI project

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Architecture of the TRAMI project

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- 25 (26) partners from 16(17) MS, mostly administrations and agencies tasked with the implementation of missions
- Duration: 2Q2022 - 2Q2024

Expected Outcomes (i.a.):

- **Shared vision** for Mission implementation at the level of MS and AC
- **Multi-level core network** of engaged MS/AC with a tailor-made governance, co- operation models, roles and responsibilities
- **Map of effective governance approaches and effective instruments** for implementation
- **Mutual learning toolbox**, knowledge exchange and mutual learning events, **co-developed use cases**
- **Knowledge platform**

Challenges and Recommendations for Missions' implementation

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- Respect the **differences in mission areas and (national/regional) policy environments**
- Be aware that **missions are not solely or even predominantly ,R&I Missions'**
- Try to use **all instruments in a coherent way** (IPCEI, CBAM/ETS, ...)
- Be serious with missions ... not doing the ,Grillparzer' !
 - Give them **high level political commitment (and visibility)**
 - **Endow missions with the necessary ressources** (money, admin capacity, ...)
 - **Missions are basically about governance** (of economic, technological and societal challenges)
- Engage intensely in **coordination and mutual learning** (e.g. TRAMI !)





Thank you for your attention !

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